PATENT COOPERATION TREATY

PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY										
To:						PCT PCT				
					W. INTERNAI	RITIEN OPINION OF THE MONAL SEARCHING AUTHORITY				
					Date of mailing	(PCT Rule 43bis.1)				
Apolica	nt's or a	gent's file referen	cc.		(day/month/year)					
		009PCT			FOR FURTHER ACTION See paragraph 2 below					
Internat	ional ap	plication No.		International filing date	(day/month/year)	Priority date (day/month/year)				
PCT	/JP:	2005/003	651	03.03.2005	, , , , , , , , , , , , , , , , , , , ,	03.03.2004				
Internat	ional Pa	tent Classification	n (IPC) or both	national classification as	of IBC					
Applican MITSUBISHI KAGAKU BIO-CLINICAL LABORATORIES, INC.										
1.	This opinion contains indications relating to the following items:									
	\boxtimes	Box No. I	Basis of the	opinion						
	\sqcup	Box No. II	o. II Priority							
		Box No. III	Non-establis	shment of opinion with re	ive step and industrial applicability					
		Box No. IV	Lack of unit	y of invention						
	\boxtimes	Box No. V	Reasoned st applicability	atement under Rule 43 <i>bis</i> r; citations and explanatio	.I(a)(i) with regard to ns supporting such stat	novelty, inventive step or industrial ement				
	닏	Box No. VI	Certain docu	aments cited						
	\vdash	Box No. VII	Certain defe	ects in the international ap	plication					
	Ш	Box No. VIII	Certain obse	ervations on the internation	nal application					
2.		THER ACTION								
	If a demand for international proliminary examination is made, this opinion will be considered to be a written opinion of the International Proliminary Examining Authority ("PIEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA as notified the International Bureau under Rule 66.1bis(b) that written opinions of his International Searching Authority will not be so considered.									
	PCT/I	n reply together, SA/220 or before	where approp the expiration	oriate, with amendments, of 22 months from the pr	before the expiration	A, the applicant is invited to submit to the IPEA at of 3 months from the date of mailing of Form expires later.				
	For further options, see Form PCT/ISA/220.									
3.	For fu	rther details, see r	notes to Form	PCT/ISA/220.						
Name a	nd maili	ing address of the	ISA/JP		Authorized officer					
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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/003651

Вох	No. I	Basis of this opinion	_
1.	With	egard to the language, this opinion has been established on the basis of the international application in the language in which it nless otherwise indicated under this item.	was
		This opinion has been established on the basis of a translation from the original language into the following language	
		, which is the language of a translation furnished for the purposes of international search (unx	der
_		tule 12.3 and 23.1(b)).	
2.	inve	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claim on, this opinion has been established on the basis of:	ned
	a.	rpe of material	
		a sequence listing	
		table(s) related to the sequence listing	i
	b.	ormat of material	
		in written format	
		in computer readable form	
	c.	nce of filing/furnishing	
		contained in the international application as filed.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority for the purposes of search.	
3.		a addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed railshed, the required statements that the information in the subsequent or additional copies is identical to that in the application led or does not go beyond the application as filed, as appropriate, were furnished.	lor ias
1.	Addi	nal comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/003651

Box	x No. V Reasoned stateme citations and expli	nt under R	ule 43bis.1(a)(i) with regard to novelty, invent	ive step or industrial applicability;	
1.	Statement				
	Novelty (N)	Claims	4-12, 15	,	YES
		Claims	1-3, 13, 14		NO
	Inventive step (IS)	Claims	4, 5, 7-12	,	YES
		Claims	1-3, 6, 13-15		NO
	Industrial applicability (IA)	Claims	1-15	,	YES
		Claims			NO

Citations and explanations:

Document 1: "Saliva concentration of some Selected Proteins and Glycoprotein Markers in Man after Supplementary Intake of β-Carotene," (LUMIKARI et al), International Journal of Vitamin and Nutrition Research, 1988, Vol. 58, No. 2, pages 171-177

Document 1 (see, summary, and page 173, lines 7-22) describes that (1) a rise in β -Carotene concentration in saliva can be detected in correlation with a rise in β -Carotene concentration in serum by intake of β -Carotene, and that (2) a measurement of changes in β -Carotene concentration is performed with reference to a mean value of the placebo treated group. Furthermore, document 1 describes that after gathered saliva is extracted with n-hexane, the measurement of β -Carotene is performed by analyzing the extract by IPIC.

The subject matters of claims 1-3, 13 and 14 do not appear to be novel in view of document

The subject matter of claim 6 does not appear to involve an inventive step in view of document 1.

Since document 1 describes that β -Carotene concentration in saliva is raised in response to intake of β -Carotene, a person skilled in the art could have easily determined whether the intake or intake amount of β -Carotene based on the β -Carotene concentration in saliva is adequate or not

The subject matter of claim 15 does not appear to involve in inventive step in view of document 1.

Since document 1 describes that β -Carotene concentration in saliva is raised in correlation with β -Carotene concentration in blood plasma, a person skilled in the art could have easily evaluated the effect of a medicine or health supplement when ingested, and performed screening for the medicine or health supplement by using the β -Carotene concentration in saliva as an indicator.

None of the documents cited in the ISR describes examining the effect or the action on the in-vivo synthesis or metabolism of any fat-soluble vitamin and/or fat-soluble food factor in an administered therapeutic agent, such as a fat-soluble vitamin and/or fat-soluble food factor in saliva is analyzed as an indicator in the subject matters of claims 4, 5 and 7. Furthermore, it is not considered to be obvious to a person skilled in the art.

None of the documents cited in the ISR describes examining any fat- soluble vitamin and/or fat- soluble food factor in vivo, such as a fat- soluble vitamin and/or fat- soluble food factor in

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International application No.
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citatio	ned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; ns and explanations supporting such statement
parotid saliva i	s analyzed in the subject matters of claims 8-12. Furthermore, it is not considered to
be obvious to a	person skilled in the art.
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